

**METHOD AND SYSTEM FOR ENSURING AUDIO SAFETY****ABSTRACT OF THE DISCLOSURE**

The invention concerns a method (200) and a system (100) for ensuring audio safety in an audio device (110). The system includes a processor (112), a sensor (116), an analog safety circuit (114) and a first feedback loop (117). The processor is programmed to output an acoustic output signal (310, 410), the sensor monitors the acoustic output signal and the analog safety circuit is coupled to an output of the processor. The first feedback loop feeds the monitored acoustic signal from the sensor to the analog safety circuit. The analog safety circuit adjusts from a first level (312, 412) to a second level (316, 414) the acoustic output signal when the acoustic output signal exceeds a predetermined safety threshold (314, 420) such that the audio device has an output capacity that is capable of driving a sound pressure level of the acoustic output signal above the predetermined safety threshold.

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